ecs
WHERE BUSINESS AND THE ENVIRONMENT CONVERGE

588 Silver Street, Agawam, MA 01001 tel 413.789.3530 fax 413.789.2776 www.ecsconsult.com

MAR 21 2012

Environmental Protection Agency
Office of Water, Water Permits Division
Code 4203M, ATTN: MSGP Reports
Pennsylvania Avenue, NW
Washington, D.C. 20460

March 15, 2012
Project No. 01-215977.00.00
Document No.

RE: NPDES Multi-Sector General Permit
Quarterly Benchmark Monitoring Results
Quarterly Visual Examination Form
Quarter: January 1, 2012 – March 31, 2012
MSGP Tracking Number: MAR05DY90

Dear Sir/Madam:

On behalf of Kane Scrap Iron and Metal, Inc. (Kane) and in accordance with the requirements of the 2008 Multi-Sector General Permit regarding Storm Water Discharge Associated with Industrial Activity (MSGP) under the National Pollutant Discharge Elimination System (NPDES), Environmental Compliance Services, Inc. (ECS) is providing the attached Quarterly Visual Examination Form(s) and Quarterly Benchmark Monitoring Results for samples collected at the facility located at 184 East Meadow Street in Chicopee, Massachusetts, during the January 1, 2012 – March 31, 2012 monitoring period.

If you have any questions and/or concerns regarding any of this information, please do not hesitate to contact this office at (413) 789-3530 at your convenience.

Sincerely,
ENVIRONMENTAL COMPLIANCE SERVICES, INC.

Todd Donze
Environmental Scientist

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Sample Duration: 3:00 pm - 3:10 pm

Name of Facility:	Kane Scrap Iron and Metal, Inc.	**Permit No.:**	MAR05DY90		
Street Address:	184 East Meadow Street	**City:**	Chicopee	**State:** MA	**Zip Code:** 01013
Outfall Number: DA-001	"Substantially Identical Outfall"?	X No	☐ Yes	(identify Substantially Identical Outfalls):	
Quarter/Year: 1st Quarter - 2012 (1/1 to 3/31)	Substitute Sample?: X No	☐ Yes	(identify quarter/year when sample was originally scheduled to be collected):		
Person(s)/Title(s) collecting sample:	Robert E. Kane III - *Non-Ferrous Metals Manager*				
Person(s)/Title(s) examining sample:	Robert E. Kane III - *Non-Ferrous Metals Manager*				
Date & Time Storm or Snowmelt Began: 3/1/2012	**Date & Time Sample Collected:** 3/1/2012 @ 3:00 pm		**Date & Time Sample Examined:** 3/2/2012 @ 9:30 am		
Nature of Discharge: ☐ Rainfall	X Snowmelt	☐ Not Applicable			
Rainfall Amount: N/A inches	Previous Storm Ended > 72 hours Before Start of This Storm?		☐ Yes	☐ No* (explain): X Not Applicable	

Parameter	
Color:	X None ☐ Other (describe):
Odor:	X None ☐ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other (describe):
Clarity:	X Clear ☐ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other (describe):
Floating Solids:	☐ No X Yes (describe): Organic Material
Settled Solids:**	X No ☐ Yes (describe):
Suspended Solids:	☐ No X Yes (describe): Fine Particulate
Oil Sheen:	X None ☐ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other (describe):
Foam (gently shake sample):	X No ☐ Yes (describe):
Other Obvious Indicators of Storm Water Pollution:	X No ☐ Yes (describe):

*The 72 hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72 hour interval is representative of local storm events during the sampling period.

**Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: ☐ No ☐ Yes (explain):

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:

No ☐ Yes (explain):

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name: Robert E. Kane III

B. Title: Non-Ferrous Metals Manager

C. Signature:

D. Date Signed: 3/2/2012

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Sample Duration: 3:00 pm - 3:10 pm

Name of Facility:	Kane Scrap Iron and Metal, Inc.	**Permit No.:**	MAR05DY90		
Street Address:	184 East Meadow Street	**City:**	Chicopee	**State:** MA	**Zip Code:** 01013
Outfall Number: DA-002	"Substantially Identical Outfall"? X No ☐ Yes	(identify Substantially Identical Outfalls):			
Quarter/Year: 1st Quarter - 2012 (1/1 to 3/31)	Substitute Sample?: X No ☐ Yes (identify quarter/year when sample was originally scheduled to be collected):				
Person(s)/Title(s) collecting sample:	Robert E. Kane III - *Non-Ferrous Metals Manager*				
Person(s)/Title(s) examining sample:	Robert E. Kane III - *Non-Ferrous Metals Manager*				
Date & Time Storm or Snowmelt Began: 3/1/2012	**Date & Time Sample Collected:** 3/1/2012 @ 3:10 pm	**Date & Time Sample Examined:** 3/2/2012 @ 9:30 am			
Nature of Discharge: ☐ Rainfall	X Snowmelt ☐ Not Applicable				
Rainfall Amount: N/A inches	Previous Storm Ended > 72 hours Before Start of This Storm? ☐ Yes ☐ No* (explain): X Not Applicable				
Parameter					
Color:	X None ☐ Other (describe):				
Odor:	X None ☐ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other (describe):				
Clarity:	X Clear ☐ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other (describe):				
Floating Solids:	X No ☐ Yes (describe):				
Settled Solids:**	X No ☐ Yes (describe):				
Suspended Solids:	☐ No X Yes (describe): Fine Particulate				
Oil Sheen:	X None ☐ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other (describe):				
Foam (gently shake sample):	X No ☐ Yes (describe):				
Other Obvious Indicators of Storm Water Pollution:	X No ☐ Yes (describe):				

*The 72 hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72 hour interval is representative of local storm events during the sampling period.

**Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: ☐ No ☐ Yes (explain): _____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:

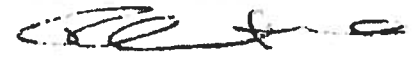
No ☐ Yes (explain): _____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name: Robert E. Kane III **B. Title:** Non-Ferrous Metals Manager

C. Signature:  **D. Date Signed:** 3/2/2012

History for KMACHICO6

Near Szot Park, Chicopee, MA — Current Conditions

« Previous Day | March | 1 | 2012 | View | Next Day »

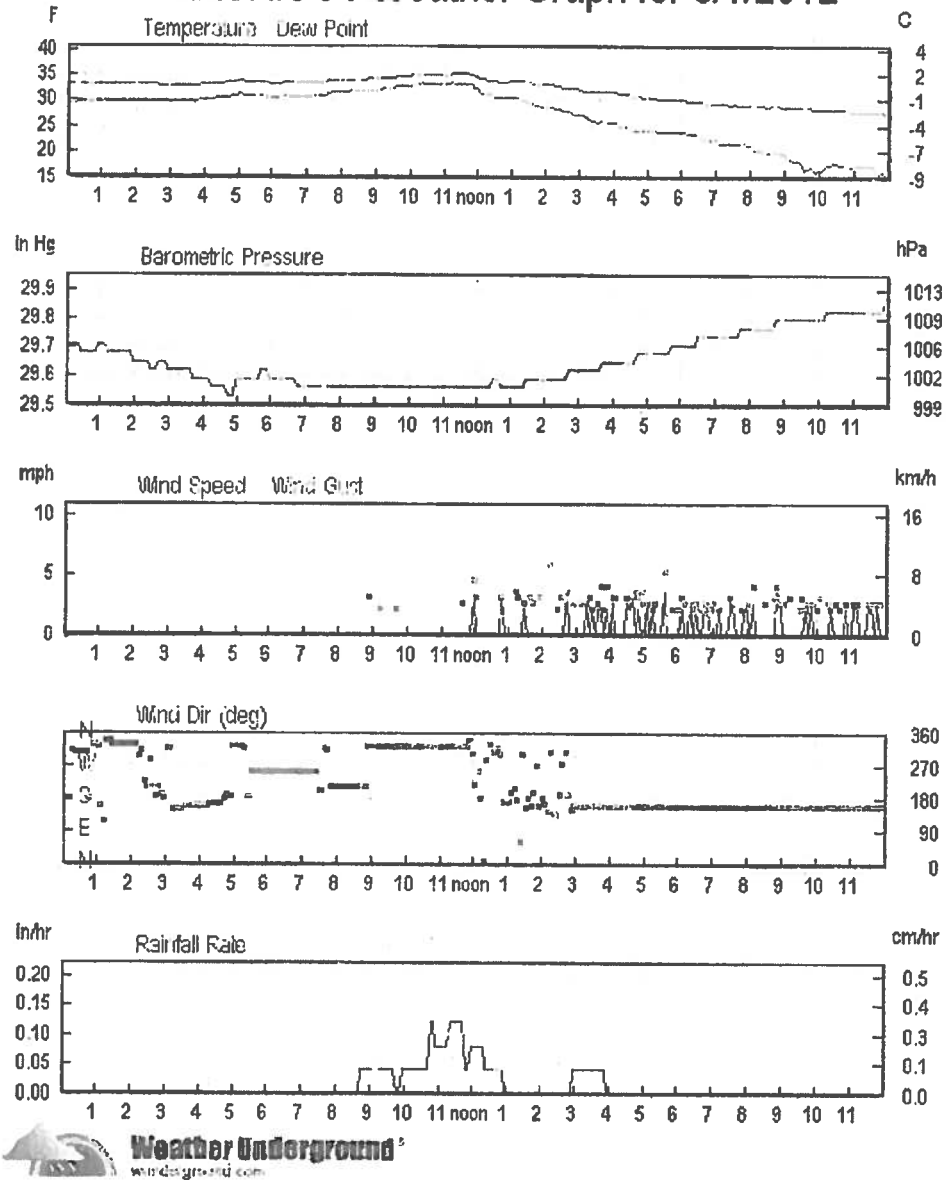
Daily Weekly Monthly Yearly Custom

	Current:	High:	Low:	Average:
Temperature:	**41.5** °F	**35.4** °F	**27.5** °F	**32.1** °F
Dew Point:	**12.4** °F	**33.4** °F	**15.4** °F	**27.2** °F
Humidity:	30%	93%	59%	82%
Wind Speed:	**2.7**mph	**4.0**mph	-	**0.3**mph
Wind Gust:	**7.2**mph	**5.8**mph	-	-
Wind:	NW	-	-	South
Pressure:	**29.88**in	**29.85**in	**29.53**in	-
Precipitation:	**0.28**in			

Statistics for the rest of the month

	High:	Low:	Average:
Temperature:	**71.8** °F	**25.9** °F	**37.4** °F
Dew Point:	**40.8** °F	**7.6** °F	**21.9** °F
Humidity:	93.0%	23.0%	56.8%
Wind Speed:	**18.8**mph from the SSE	-	**2.2**mph
Wind Gust:	**18.8**mph from the SSE	-	-
Wind:	-	-	SSW
Pressure:	**30.39**in	**29.21**in	-
Precipitation:	**0.95**in		

KMACHICO6 Weather Graph for 3/1/2012



Weather Underground

Report Date:
14-Mar-12 11:21

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Environmental Compliance Services
588 Silver Street
Agawam, MA 01001
Attn: Todd Donze

Project: Kane Scrap Iron + Metal Inc - Chicopee, MA
Project #: 01-215977.00.00

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB44731-01	DA-001	Storm Water	02-Mar-12 00:00	02-Mar-12 16:17
SB44731-02	DA-002	Storm Water	02-Mar-12 00:00	02-Mar-12 16:17

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes.
Please note that this report contains 7 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

CASE NARRATIVE:

The samples were received 0.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

HACH8000

Samples:

SB44731-01 *DA-001*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Chemical Oxygen Demand

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
DA-001	01-215977.00.00	Storm Water	02-Mar-12 00:00	02-Mar-12
SB44731-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods	05-Mar-12	05-Mar-12	AMT	1204825	
Total Metals by EPA 200 Series Methods													
7429-90-5	Aluminum	**11.0**		mg/l	0.0250	0.0167	1	EPA 200.7	08-Mar-12	12-Mar-12	AMT	1205017	X
7440-50-8	Copper	**0.612**		mg/l	0.0050	0.0024	1	"	"	"	"	"	X
7439-89-6	Iron	**18.1**		mg/l	0.0150	0.0098	1	"	"	"	"	"	X
7439-92-1	Lead	**0.502**		mg/l	0.0075	0.0028	1	"	"	13-Mar-12	"	"	X
7440-66-6	Zinc	**0.764**		mg/l	0.0050	0.0025	1	"	"	12-Mar-12	"	"	X
General Chemistry Parameters													
	Hardness	**196**		mg/l CaCO3	0.291	0.242	1	SM 2340B	08-Mar-12	12-Mar-12	AMT	1205017	X
	Chemical Oxygen Demand	**278**	GS1	mg/l	10.0	3.25	1	HACH8000	08-Mar-12	08-Mar-12	GMA	1205145	X
	Total Suspended Solids	**294**		mg/l	10	6	1	SM2540D	06-Mar-12	07-Mar-12	BD	1204910	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
DA-002	01-215977.00.00	Storm Water	02-Mar-12 00:00	02-Mar-12
SB44731-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods	05-Mar-12	05-Mar-12	AMT	1204825	
Total Metals by EPA 200 Series Methods													
7429-90-5	Aluminum	**8.47**		mg/l	0.0250	0.0167	1	EPA 200.7	08-Mar-12	12-Mar-12	AMT	1205017	X
7440-50-8	Copper	**0.268**		mg/l	0.0050	0.0024	1	"	"	"	"	"	X
7439-89-6	Iron	**12.6**		mg/l	0.0150	0.0098	1	"	"	"	"	"	X
7439-92-1	Lead	**0.219**		mg/l	0.0075	0.0028	1	"	"	13-Mar-12	"	"	X
7440-66-6	Zinc	**0.397**		mg/l	0.0050	0.0025	1	"	"	12-Mar-12	"	"	X
General Chemistry Parameters													
	Hardness	**43.4**		mg/l CaCO3	0.291	0.242	1	SM 2340B	08-Mar-12	12-Mar-12	AMT	1205017	X
	Chemical Oxygen Demand	**114**		mg/l	10.0	3.25	1	HACH8000	08-Mar-12	08-Mar-12	GMA	1205145	X
	Total Suspended Solids	**113**		mg/l	5	3	1	SM2540D	06-Mar-12	07-Mar-12	BD	1204910	X

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1205017 - EPA 200 Series										
Blank (1205017-BLK1)					Prepared: 08-Mar-12 Analyzed: 12-Mar-12					
Zinc	< 0.0050		mg/l	0.0050						
Lead	< 0.0075		mg/l	0.0075						
Iron	< 0.0150		mg/l	0.0150						
Copper	< 0.0050		mg/l	0.0050						
Aluminum	< 0.0250		mg/l	0.0250						
LCS (1205017-BS1)					Prepared: 08-Mar-12 Analyzed: 12-Mar-12					
Lead	**1.20**		mg/l	0.0075	1.25		95.8	85-115		
Iron	**1.31**		mg/l	0.0150	1.25		105	85-115		
Zinc	**1.27**		mg/l	0.0050	1.25		102	85-115		
Copper	**1.28**		mg/l	0.0050	1.25		103	85-115		
Aluminum	**1.26**		mg/l	0.0250	1.25		101	85-115		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1204910 - General Preparation										
Blank (1204910-BLK1)						Prepared: 06-Mar-12 Analyzed: 07-Mar-12				
Total Suspended Solids	< 5		mg/l	5						
LCS (1204910-BS1)						Prepared: 06-Mar-12 Analyzed: 07-Mar-12				
Total Suspended Solids	**90**		mg/l	10	96.6		93	90-110		
Batch 1205017 - EPA 200 Series										
Blank (1205017-BLK1)						Prepared: 08-Mar-12 Analyzed: 12-Mar-12				
Hardness	< 0.291		mg/l CaCO3	0.291						
LCS (1205017-BS1)						Prepared: 08-Mar-12 Analyzed: 12-Mar-12				
Hardness	**21.1**		mg/l CaCO3	0.291	20.8		101	85-115		
Batch 1205145 - General Preparation										
Blank (1205145-BLK1)						Prepared & Analyzed: 08-Mar-12				
Chemical Oxygen Demand	< 5.00		mg/l	5.00						
LCS (1205145-BS1)						Prepared & Analyzed: 08-Mar-12				
Chemical Oxygen Demand	**49.9**		mg/l	5.00	50.0		100	90-110		
Calibration Blank (1205145-CCB1)						Prepared & Analyzed: 08-Mar-12				
Chemical Oxygen Demand	**-0.0910**		mg/l							
Calibration Blank (1205145-CCB2)						Prepared & Analyzed: 08-Mar-12				
Chemical Oxygen Demand	**-1.09**		mg/l							
Calibration Blank (1205145-CCB3)						Prepared & Analyzed: 08-Mar-12				
Chemical Oxygen Demand	**-1.08**		mg/l							
Calibration Check (1205145-CCV1)						Prepared & Analyzed: 08-Mar-12				
Chemical Oxygen Demand	**49.1**		mg/l		50.0		98	90-110		
Calibration Check (1205145-CCV2)						Prepared & Analyzed: 08-Mar-12				
Chemical Oxygen Demand	**50.9**		mg/l		50.0		102	90-110		
Calibration Check (1205145-CCV3)						Prepared & Analyzed: 08-Mar-12				
Chemical Oxygen Demand	**50.9**		mg/l		50.0		102	90-110		
Reference (1205145-SRM1)						Prepared & Analyzed: 08-Mar-12				
Chemical Oxygen Demand	**57.1**		mg/l	5.00	58.0		98	82-113		

Notes and Definitions

GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Nicole Leja

SB44731

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Todd Donze
ECS - Agawam

Telephone #: (413) 789-3530
Project Mgr. Todd Donze

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 01-215-977.00.00
Site Name: Kane Scrap Iron & Metal, Inc
Location: _____ State: _____
Sampler(s): _____

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11=_____ 12=_____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= Storm water X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	COD	TSS TSS	Total Cu, Fe Pb, Zn	Hardness
44731-01	DA-001	3/2/12		G	x1				3	X	X	X	X
02	DA-002	3/2/12		G	x1				3	X	X	X	X

Containers: # of VOA Vials, # of Amber Glass, # of Clear Glass, # of Plastic, COD
Analyses: TSS TSS, Total Cu, Fe Pb, Zn, Hardness

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☐ No ☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

percent rec 3/5/12

Relinquished by:	Received by:	Date:	Time:	Temp°C
DLC	DLC	3/2/12	12:37	0.2
		3/2/12	16:17	

☐ EDD Format E-Mail
☐ E-mail to E-mail to Tdonze@ECSconsult.com

Condition upon receipt: N/A
☐ Ambient ☐ Iced ☒ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen